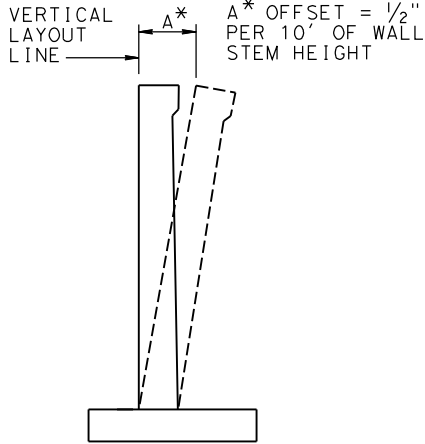


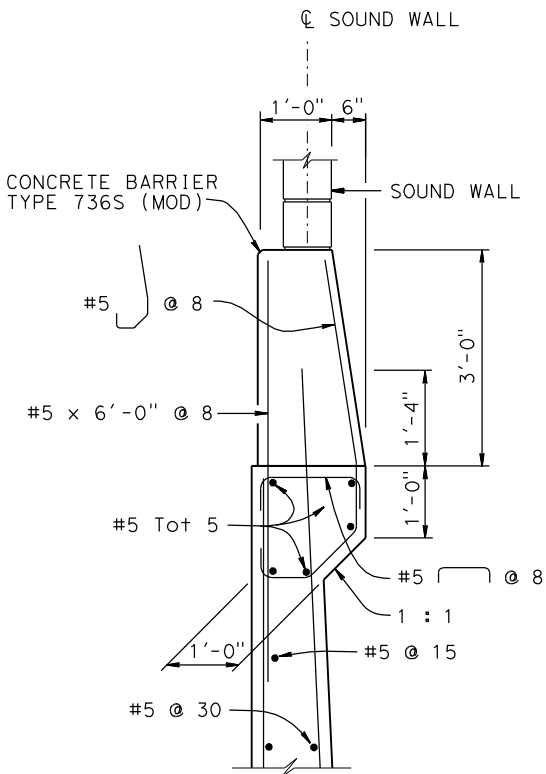
ELEVATION
No Scale

NOTES:
"ha" and "hb" above B bars indicate distance from top of footing to upper end of B bars, see table.
"S" is B bar spacing, see table.
Ø : 2 bar bundle

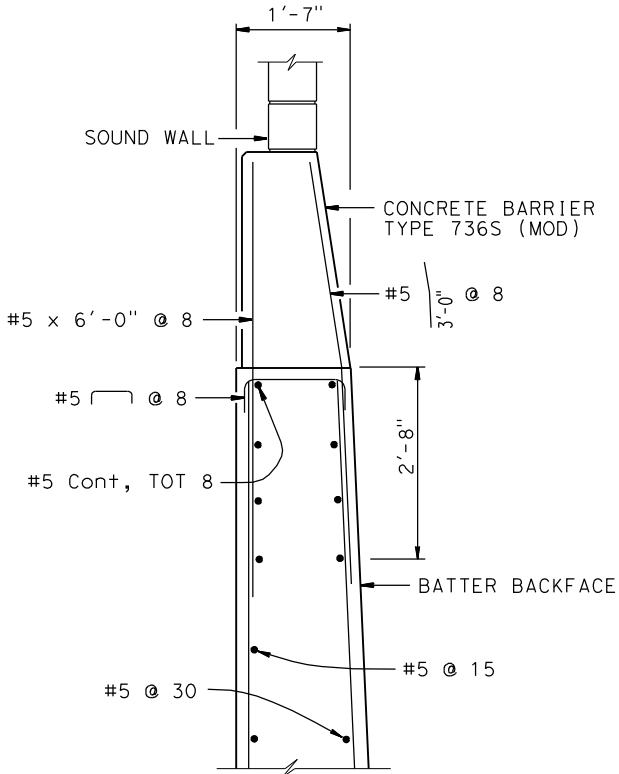


WALL OFFSET
No Scale

Values for offsetting forms to be determined by the Engineer



DETAIL A
3/4 = 1'-0"



OPTIONAL DETAIL A
3/4 = 1'-0"

For Details not shown, see "DETAIL A"

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
WS: 33 psf on Sound Wall and Barrier
LS: Varied surcharge on level ground surface
CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward
EQE: Mononabe-Okabe Method
K_h = 0.3
K_v = 0.0
Soil: Ø = 34°
γ = 120 pcf
Reinforced Concrete: f'_c = 3600 psi
f_y = 60,000 psi
Load Combinations and Limit States
Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS
Service II Q=1.00DC+1.00EV+1.00EH+1.00WS
Strength I Q=aDC+βEV+1.50EH+1.75LS
Strength III Q=aDC+βEV+1.50EH+1.40WS
Strength V Q=aDC+βEV+1.50EH+1.35LS+0.40WS
Extreme I Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE
Extreme II Q=1.00DC+1.00EV+1.00EH+1.00CT

Where: Q: Force Effects
a: 1.25 or 0.90, Which ever Controls Design
B: 1.35 or 1.00, which ever Controls Design
DC: Dead Load of Structure Components
EV: Vertical Earth Fill Pressure
LS: Live Load Surcharge
EQE: Seismic Earth Pressure
EQD: Soil and Structure Components Inertia. Soil inertia ignored for stem design
WS: Wind Load on Sound Wall and Barrier
CT: Vehicular Collision Force

- NOTES:
- For sound wall and retaining wall Architectural finish or texture see details elsewhere in Project Plans
 - For details not shown and drainage notes see **B3-5**
 - Footing cover, 1'-6" minimum.
 - For sound wall and barrier reinforcement details, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
 - For H = 6' through 14', extend B bars into Barrier for stem with haunch.
 - For H ≥ 16', extend @ bars into Barrier for stem with haunch.

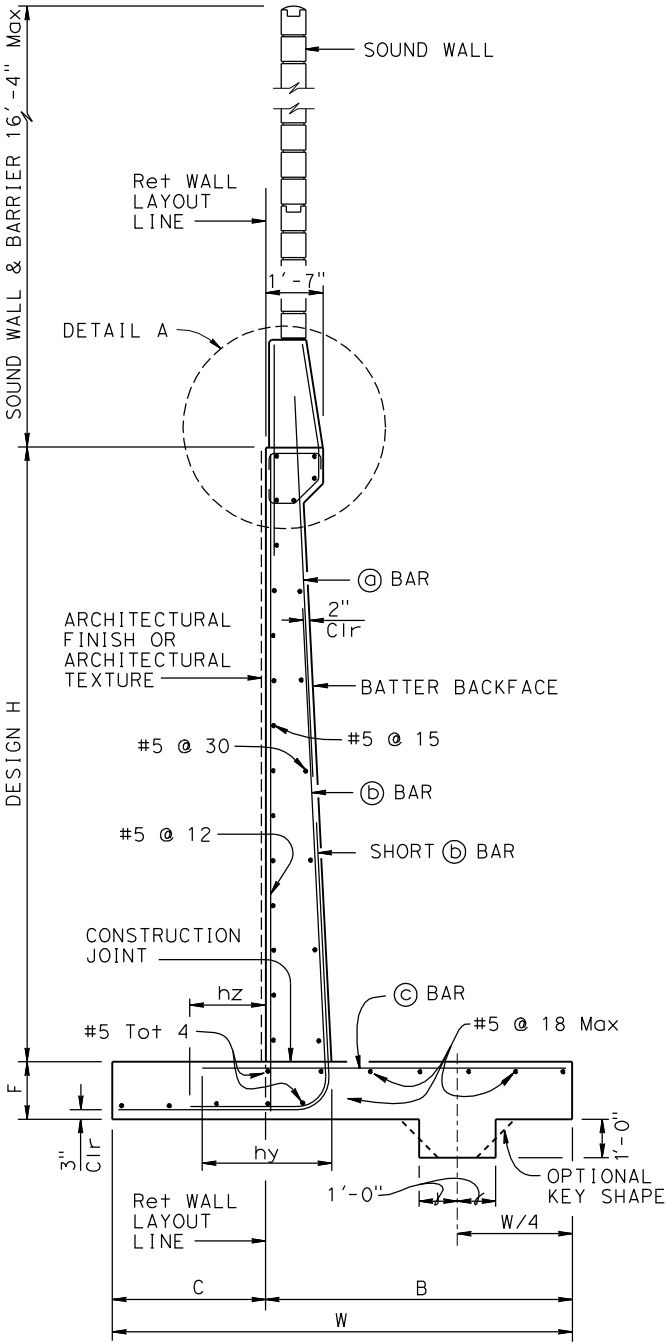
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

REGISTERED CIVIL ENGINEER X DATE X

PLANS APPROVAL DATE X

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER X No. X Exp. X CIVIL STATE OF CALIFORNIA



SPREAD FOOTING SECTION
No Scale

STANDARD DRAWING

FILE NO. **xs14-220-1**

APPROVAL DATE July 2011

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. X
POST MILE X

X

RETAINING WALL TYPE 1SWB-DETAILS NO. 1

UNIT: X
PROJECT NUMBER & PHASE: X
CONTRACT NO.: X

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	X	X

TIME PLOTTED => \$TIME
DATE PLOTTED => \$DATE
USERNAME => \$USER